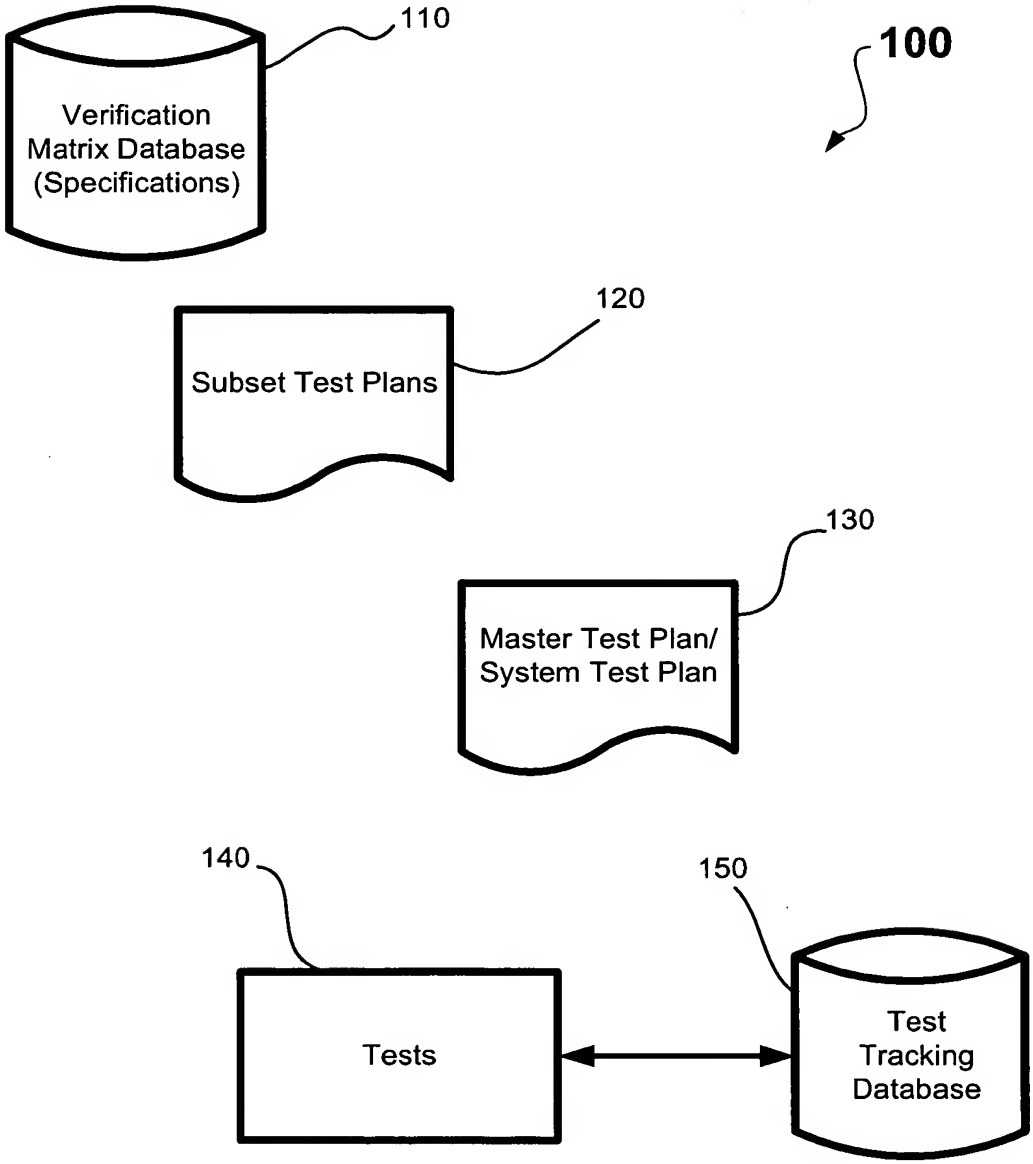


Fig. 1
(Prior Art)

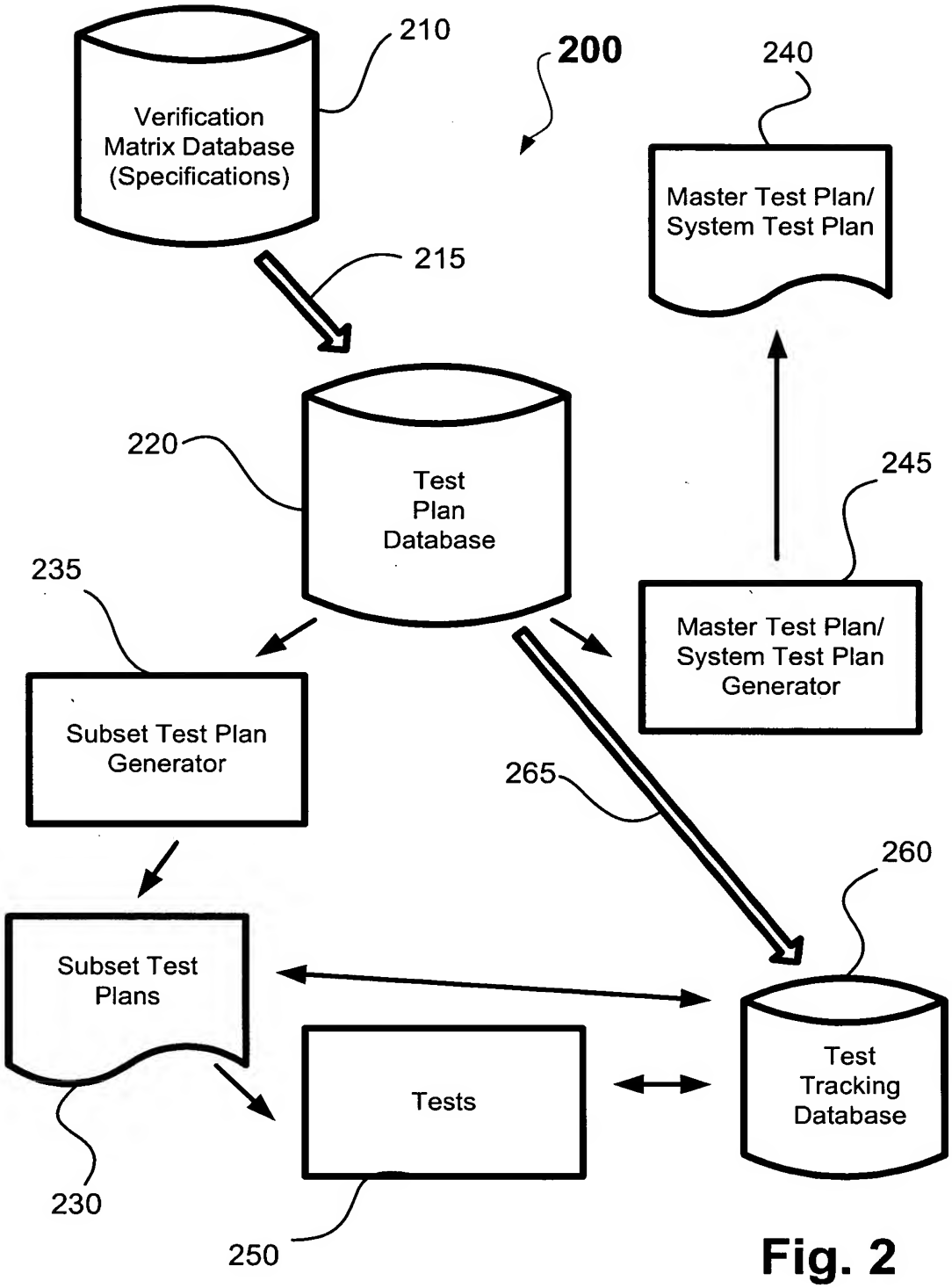

210
200
240
Verification Matrix Database (Specifications)
Master Test Plan/ System Test Plan
215
220
Test Plan Database
245
235
Master Test Plan/ System Test Plan Generator
Subset Test Plan Generator
265
260
Subset Test Plans
Test Tracking Database
Tests
230
250

Fig. 2

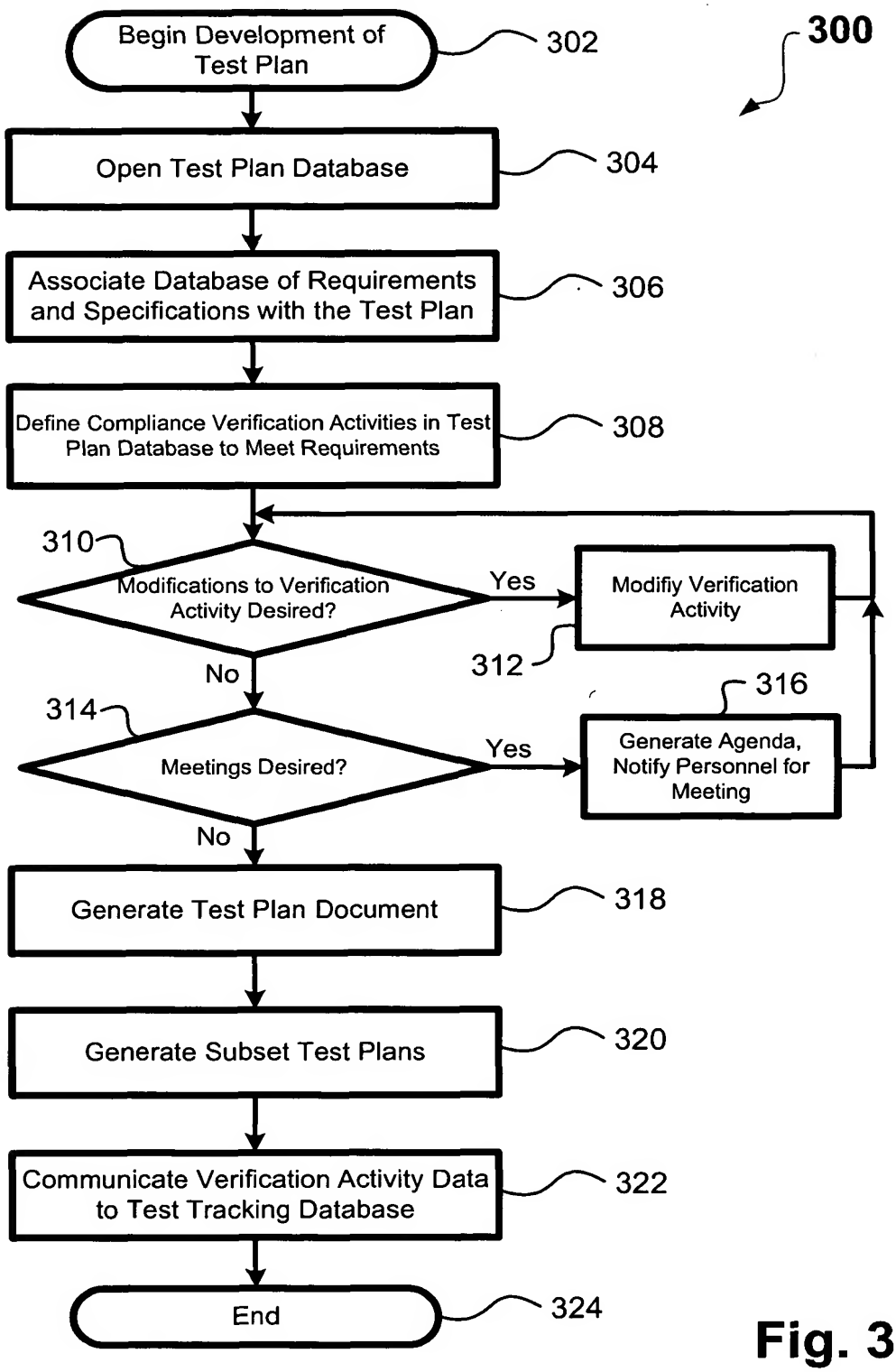
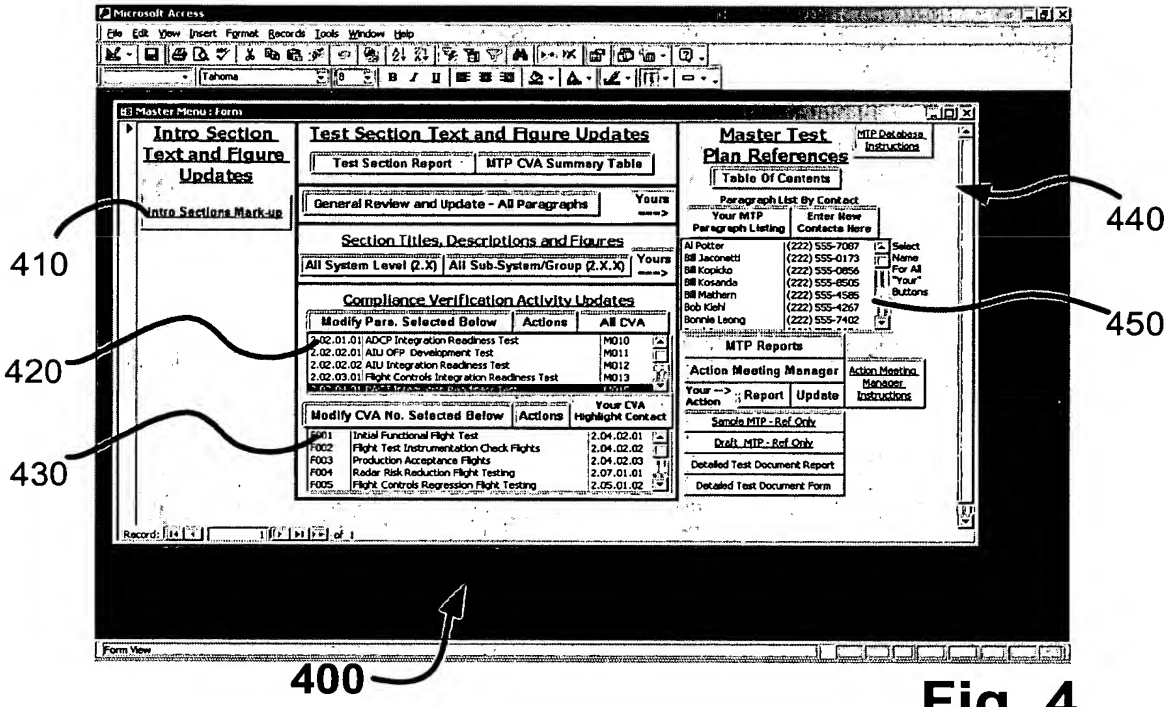

300
Begin Development of Test Plan
302
Open Test Plan Database
304
Associate Database of Requirements and Specifications with the Test Plan
306
Define Compliance Verification Activities in Test Plan Database to Meet Requirements
308
310
Modifications to Verification Activity Desired?
Yes
Modifiy Verification Activity
312
No
314
Meetings Desired?
Yes
316
Generate Agenda, Notify Personnel for Meeting
No
Generate Test Plan Document
318
Generate Subset Test Plans
320
Communicate Verification Activity Data to Test Tracking Database
322
End
324

Fig. 3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Intro Section Text and Figure Updates
Intro Sections Mark-up
Test Section Text and Figure Updates
Test Section Report
MTP CVA Summary Table
General Review and Update - All Paragraphs
Section Titles, Descriptions and Figures
All System Level (2.X)
All Sub-System/Group (2.X.X)
Compliance Verification Activity Updates
Modify Para. Selected Below
Actions
All CVA
Modify CVA No. Selected Below
Your CVA Highlight Contact
Master Test Plan References
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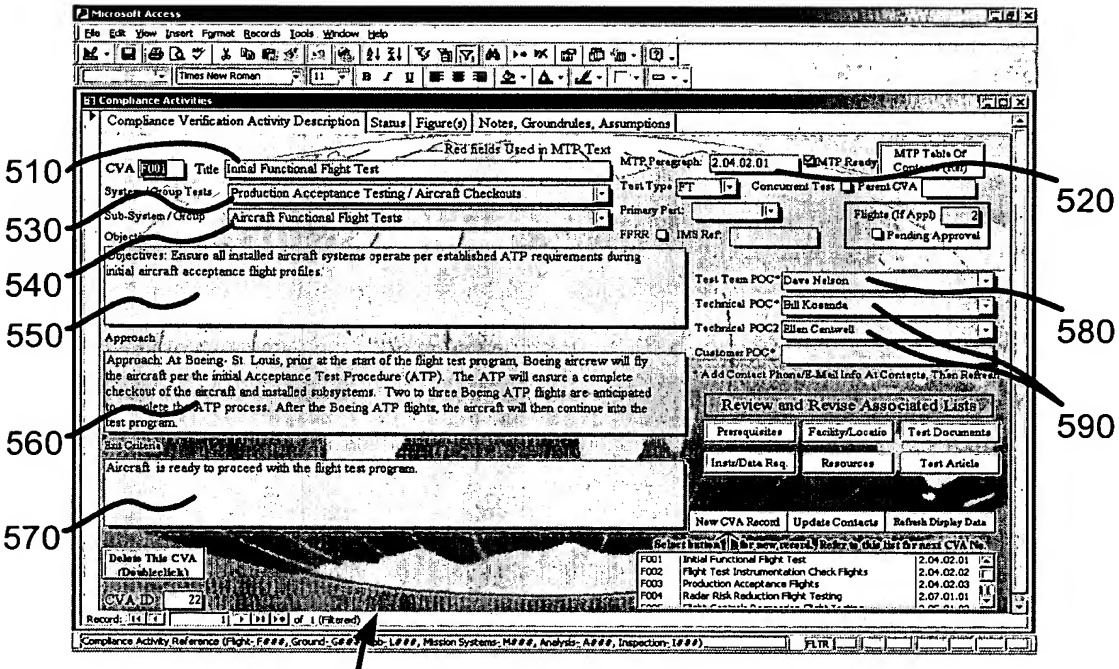
MTP Reports
Action Meeting Manager
Sample MTP - Ref Only
Draft MTP - Ref Only
Detailed Test Document Report
Detailed Test Document Form
Form View
410
420
430
440
450
400

Fig. 4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Compliance Activities
Compliance Verification Activity Description
Status
Figure(s)
Notes, Groundrules, Assumptions
CVA
Title
Initial Functional Flight Test
Production Acceptance Testing / Aircraft Checkouts
Aircraft Functional Flight Tests
Objectives: Ensure all installed aircraft systems operate per established ATP requirements during initial aircraft acceptance flight profiles.
Approach:
Approach: At Boeing- St. Louis, prior at the start of the flight test program, Boeing aircrew will fly the aircraft per the initial Acceptance Test Procedure (ATP). The ATP will ensure a complete checkout of the aircraft and installed subsystems. Two to three Boeing ATP flights are anticipated to complete the ATP process. After the Boeing ATP flights, the aircraft will then continue into the test program.
Aircraft is ready to proceed with the flight test program.
Test Team POC*
Dave Nelson
Technical POC*
Bill Kosanda
Technical POC2
Ellen Cantwell
Review and Revise Associated Lists
Prerequisites
Facility/Locatio
Test Documents
Insts/Data Req
Resources
Test Article
New CVA Record
Update Contacts
Refresh Display Data
Delete This CVA (Doubleclick)
510
520
530
540
550
560
570
580
590
500

Fig. 5

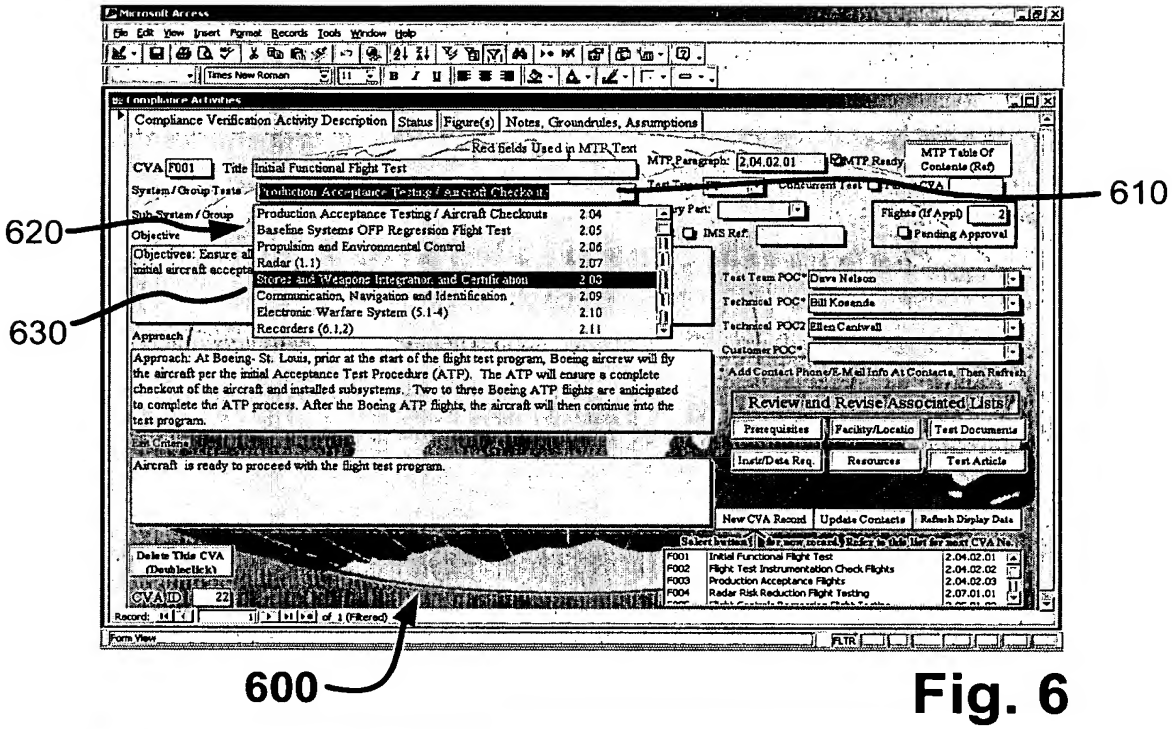

610
620
630
600
Compliance Verification Activity Description
Status
Figure(s)
Notes, Groundrules, Assumptions
Initial Functional Flight Test
Production Acceptance Testing / Aircraft Checkouts
Baseline Systems OFP Regression Flight Test
Propulsion and Environmental Control
Radar (1.1)
Stores and Weapons Integration and Certification
Communication, Navigation and Identification
Electronic Warfare System (5.1-4)
Recorders (6.1.2)
Approach: At Boeing- St. Louis, prior at the start of the flight test program, Boeing aircrew will fly the aircraft per the initial Acceptance Test Procedure (ATP). The ATP will ensure a complete checkout of the aircraft and installed subsystems. Two to three Boeing ATP flights are anticipated to complete the ATP process. After the Boeing ATP flights, the aircraft will then continue into the test program.
Aircraft is ready to proceed with the flight test program.
Review and Revise Associated Lists
Prerequisites
Facility/Locatio
Test Documents
Instr/Data Req.
Resources
Test Article
New CVA Record
Update Contacts
Refresh Display Data

Fig. 6

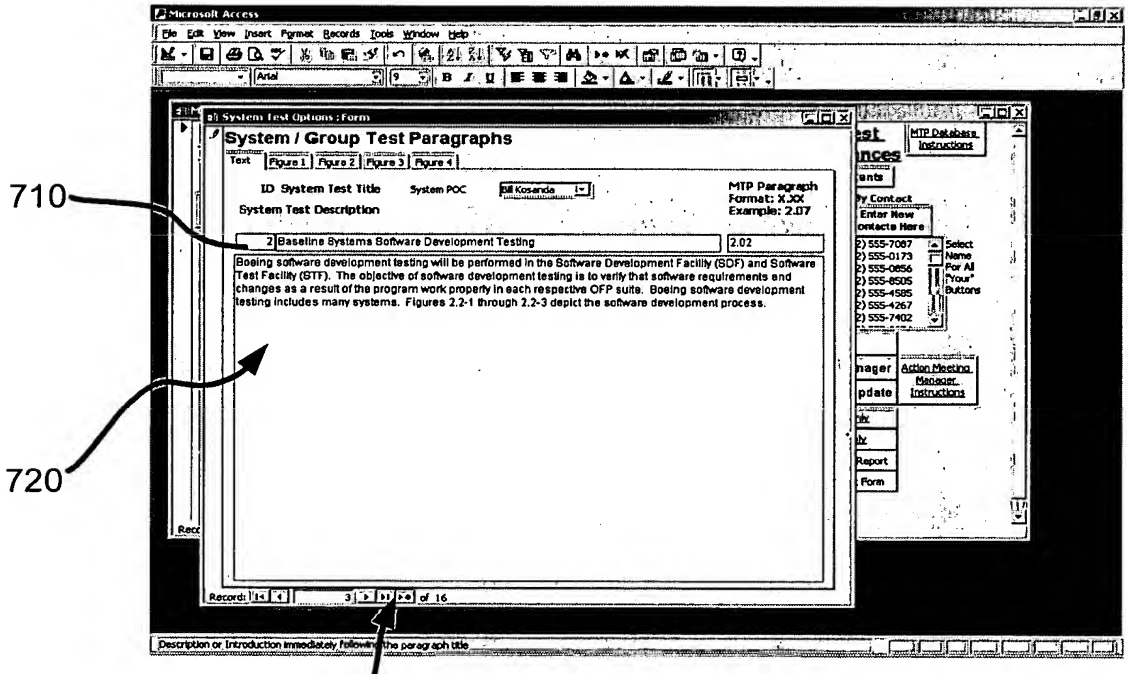
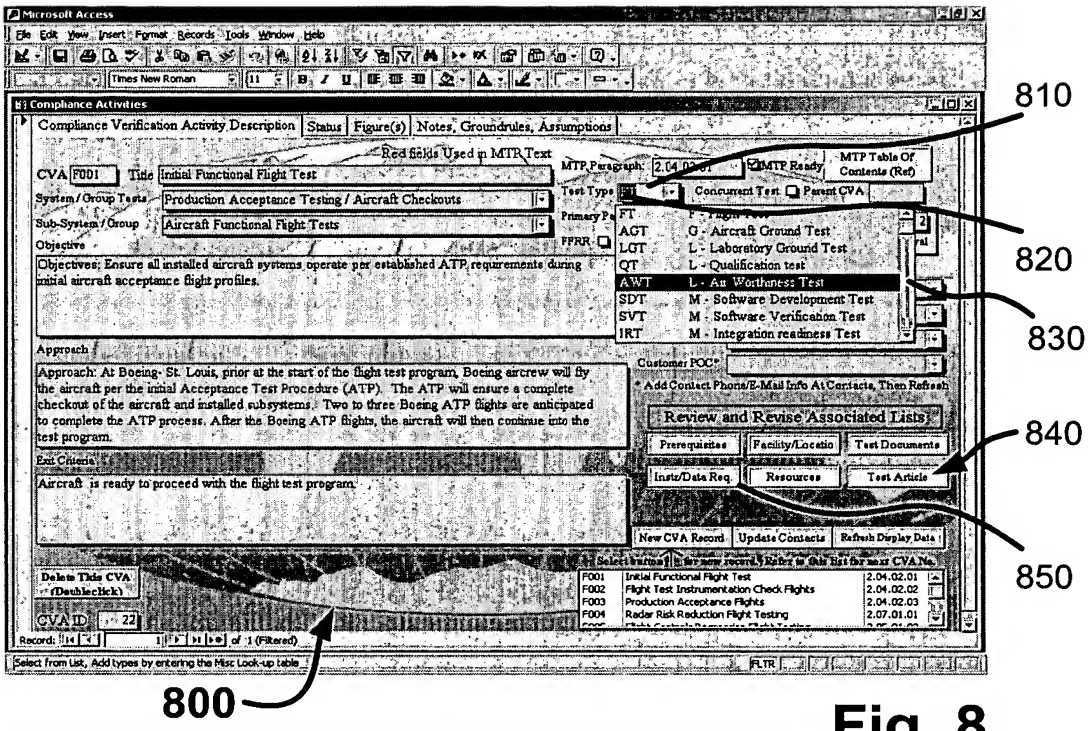

710
720
700
System / Group Test Paragraphs
ID System Test Title
System POC
System Test Description
Baseline Systems Software Development Testing
Boeing software development testing will be performed in the Software Development Facility (SDF) and Software Test Facility (STF). The objective of software development testing is to verify that software requirements and changes as a result of the program work properly in each respective OFP suite. Boeing software development testing includes many systems. Figures 2.2-1 through 2.2-3 depict the software development process.
MTP Paragraph Format: X.XX Example: 2.07

Fig. 7


Microsoft Access
Compliance Activities
Compliance Verification Activity Description
Status
Figure(s)
Notes, Groundrules, Assumptions
Red fields Used in MTP Text
CVA F001
Title Initial Functional Flight Test
System / Group Tests Production Acceptance Testing / Aircraft Checkouts
Sub-System / Group Aircraft Functional Flight Tests
Objective
Objectives: Ensure all installed aircraft systems operate per established ATP requirements during initial aircraft acceptance flight profiles.
Approach
Approach: At Boeing- St. Louis, prior at the start of the flight test program, Boeing aircrew will fly the aircraft per the initial Acceptance Test Procedure (ATP). The ATP will ensure a complete checkout of the aircraft and installed subsystems. Two to three Boeing ATP flights are anticipated to complete the ATP process. After the Boeing ATP flights, the aircraft will then continue into the test program.
Exit Criteria
Aircraft is ready to proceed with the flight test program.
MTP Paragraph
MTP Ready
MTP Table Of Contents (Ref)
Test Type
Concurrent Test
Parent CVA
FT
AGT G - Aircraft Ground Test
LGT L - Laboratory Ground Test
QT L - Qualification test
AWT L - Air Worthiness Test
SDT M - Software Development Test
SVT M - Software Verification Test
IRT M - Integration readiness Test
Customer POC*
* Add Contact Phone/E-Mail Info At Contacts, Then Refresh
Review and Revise Associated Lists:
Prerequisites
Facility/Locatio
Test Documents
Instr/Data Req.
Resources
Test Article
New CVA Record
Update Contacts
Refresh Display Data
Delete This CVA (Doubleclick)
CVA ID 22
F001 Initial Functional Flight Test 2.04.02.01
F002 Flight Test Instrumentation Check Flights 2.04.02.02
F003 Production Acceptance Flights 2.04.02.03
F004 Radar Risk Reduction Flight Testing 2.07.01.01
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FLTR
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810
820
830
840
850

Fig. 8

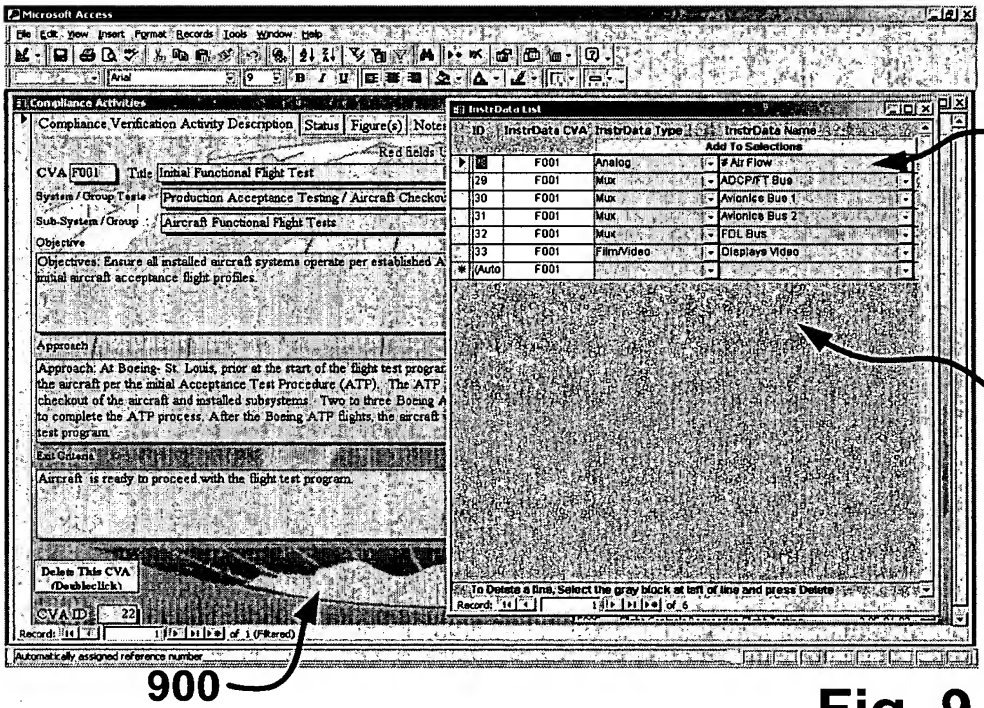

Microsoft Access
Compliance Activities
Compliance Verification Activity Description
Status
Figure(s)
CVA F001
Title Initial Functional Flight Test
System / Group Tests Production Acceptance Testing / Aircraft Checkou
Sub-System / Group Aircraft Functional Flight Tests
Objective
Objectives: Ensure all installed aircraft systems operate per established A initial aircraft acceptance flight profiles.
Approach
Approach: At Boeing- St. Louis, prior at the start of the flight test progra the aircraft per the initial Acceptance Test Procedure (ATP). The ATP checkout of the aircraft and installed subsystems. Two to three Boeing A to complete the ATP process. After the Boeing ATP flights, the aircraft test program.
Exit Criteria
Aircraft is ready to proceed with the flight test program.
Delete This CVA (Doubleclick)
CVA ID 22
Record: 1 of 1 (Filtered)
Automatically assigned reference number
InstrData List
ID
InstrData CVA
InstrData Type
InstrData Name
Add To Selections
F001 Analog # Air Flow
29 F001 Mux ADCP/FT Bus
30 F001 Mux Avionics Bus 1
31 F001 Mux Avionics Bus 2
32 F001 Mux FDL Bus
33 F001 Film/Video Displays Video
(Auto F001
To Delete a line, Select the gray block at left of line and press Delete
Record: 1 of 6
900
910
920

Fig. 9

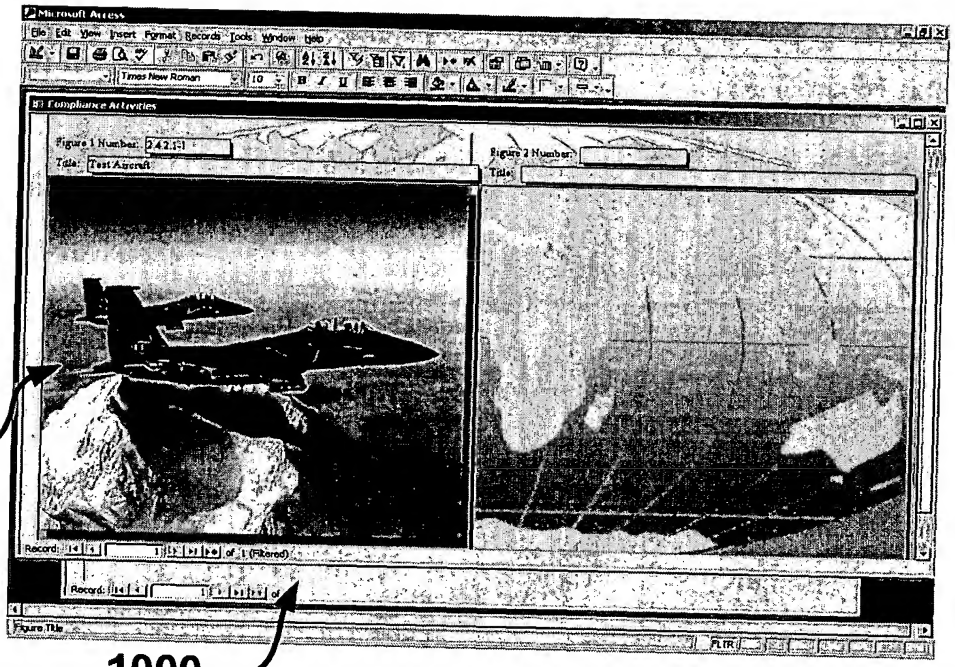

Microsoft Access
Compliance Activities
Figure 1 Number:
Title: Test Aircraft
Figure 2 Number:
Title:
1010
1000

Fig. 10

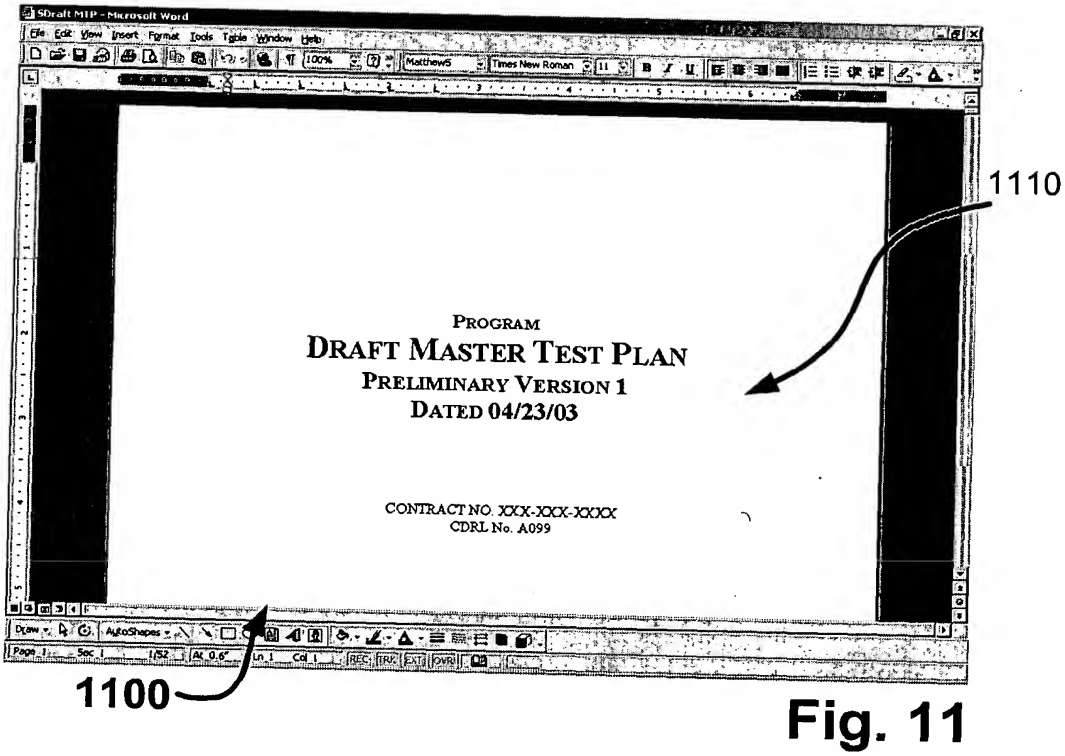
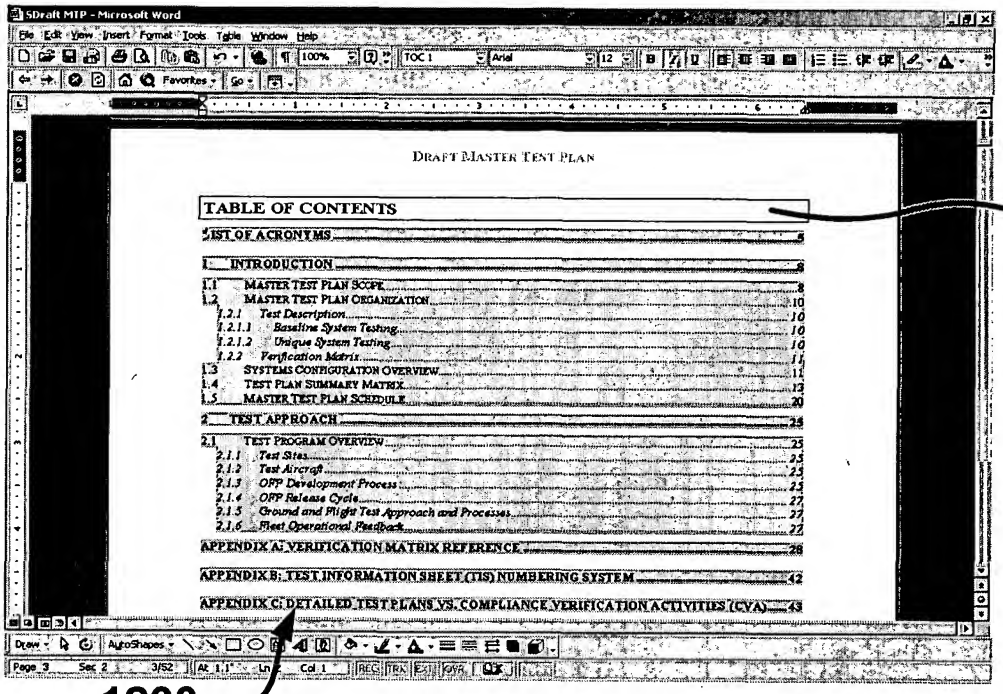

SDraft MTP - Microsoft Word
PROGRAM
DRAFT MASTER TEST PLAN
PRELIMINARY VERSION 1
DATED 04/23/03
CONTRACT NO. XXX-XXX-XXXX
CDRL No. A099
1110
1100

Fig. 11


5Draft MTP - Microsoft Word
DRAFT MASTER TEST PLAN
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1.2 MASTER TEST PLAN ORGANIZATION 10
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1.2.1.1 Baseline System Testing 10
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1.3 SYSTEMS CONFIGURATION OVERVIEW 11
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1210
1200

Fig. 12

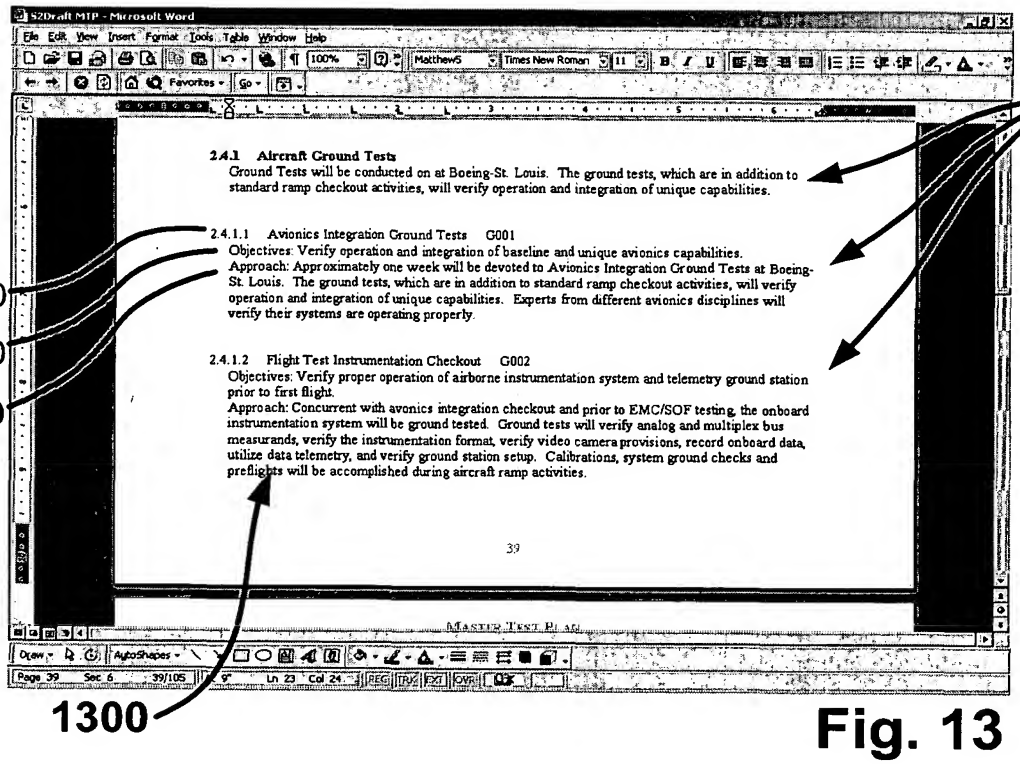

S2Draft MTP - Microsoft Word
2.4.1 Aircraft Ground Tests
Ground Tests will be conducted on at Boeing-St. Louis. The ground tests, which are in addition to standard ramp checkout activities, will verify operation and integration of unique capabilities.
2.4.1.1 Avionics Integration Ground Tests G001
Objectives: Verify operation and integration of baseline and unique avionics capabilities.
Approach: Approximately one week will be devoted to Avionics Integration Ground Tests at Boeing-St. Louis. The ground tests, which are in addition to standard ramp checkout activities, will verify operation and integration of unique capabilities. Experts from different avionics disciplines will verify their systems are operating properly.
2.4.1.2 Flight Test Instrumentation Checkout G002
Objectives: Verify proper operation of airborne instrumentation system and telemetry ground station prior to first flight.
Approach: Concurrent with avonics integration checkout and prior to EMC/SOF testing, the onboard instrumentation system will be ground tested. Ground tests will verify analog and multiplex bus measurands, verify the instrumentation format, verify video camera provisions, record onboard data, utilize data telemetry, and verify ground station setup. Calibrations, system ground checks and preflights will be accomplished during aircraft ramp activities.
39
MASTER TEST PLAN
1310
1320
1330
1340
1300

Fig. 13

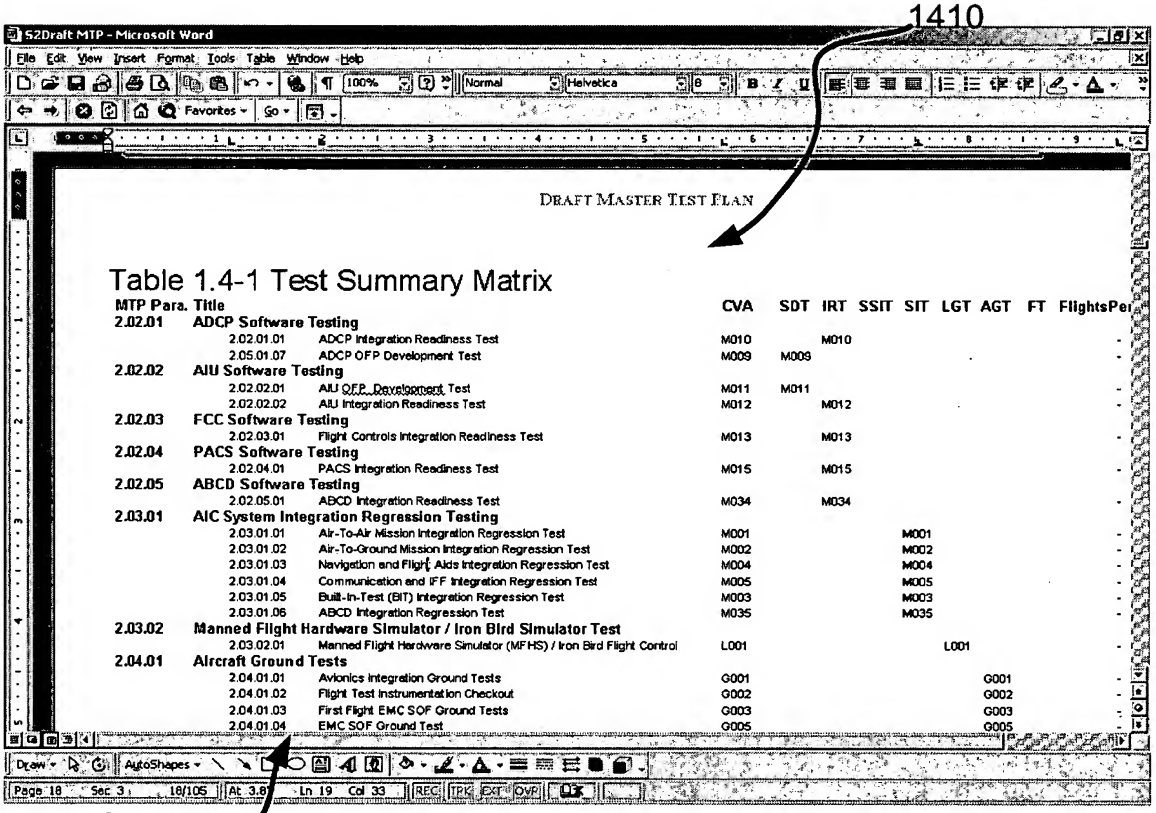
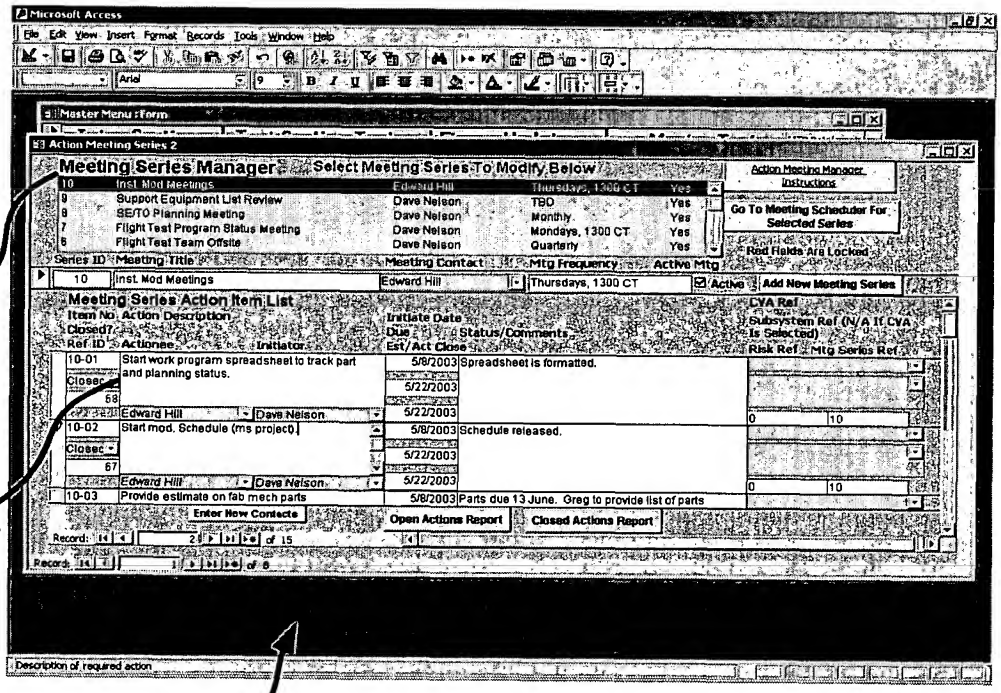

1410
S2Draft MTP - Microsoft Word
File Edit View Insert Format Tools Table Window Help
DRAFT MASTER TEST PLAN
Table 1.4-1 Test Summary Matrix
MTP Para. Title CVA SDT IRT SSIT SIT LGT AGT FT FlightsPer
2.02.01 ADCP Software Testing
2.02.01.01 ADCP Integration Readiness Test M010 M010
2.05.01.07 ADCP OFP Development Test M009 M009
2.02.02 AIU Software Testing
2.02.02.01 AIU OFP Development Test M011 M011
2.02.02.02 AIU Integration Readiness Test M012 M012
2.02.03 FCC Software Testing
2.02.03.01 Flight Controls Integration Readiness Test M013 M013
2.02.04 PACS Software Testing
2.02.04.01 PACS Integration Readiness Test M015 M015
2.02.05 ABCD Software Testing
2.02.05.01 ABCD Integration Readiness Test M034 M034
2.03.01 AIC System Integration Regression Testing
2.03.01.01 Air-To-Air Mission Integration Regression Test M001 M001
2.03.01.02 Air-To-Ground Mission Integration Regression Test M002 M002
2.03.01.03 Navigation and Flight Aids Integration Regression Test M004 M004
2.03.01.04 Communication and IFF Integration Regression Test M005 M005
2.03.01.05 Built-In-Test (BIT) Integration Regression Test M003 M003
2.03.01.06 ABCD Integration Regression Test M035 M035
2.03.02 Manned Flight Hardware Simulator / Iron Bird Simulator Test
2.03.02.01 Manned Flight Hardware Simulator (MFHS) / Iron Bird Flight Control L001 L001
2.04.01 Aircraft Ground Tests
2.04.01.01 Avionics Integration Ground Tests G001 G001
2.04.01.02 Flight Test Instrumentation Checkout G002 G002
2.04.01.03 First Flight EMC SOF Ground Tests G003 G003
2.04.01.04 EMC SOF Ground Test G005 G005
1400

Fig. 14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Meeting Series Action Item List
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1520
1500

Fig. 15

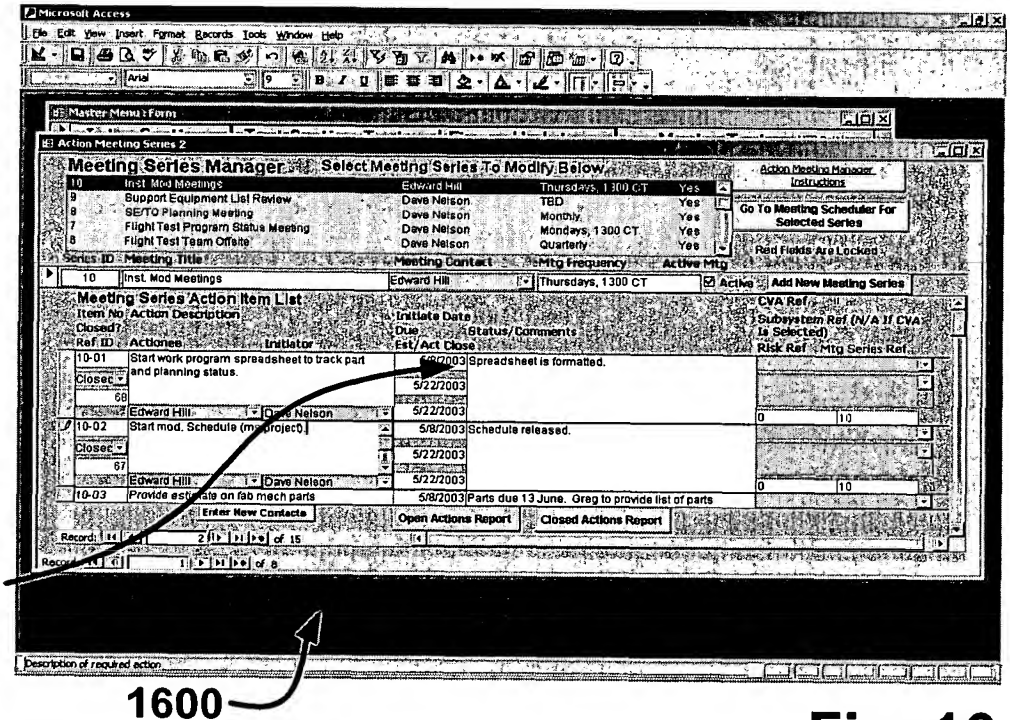
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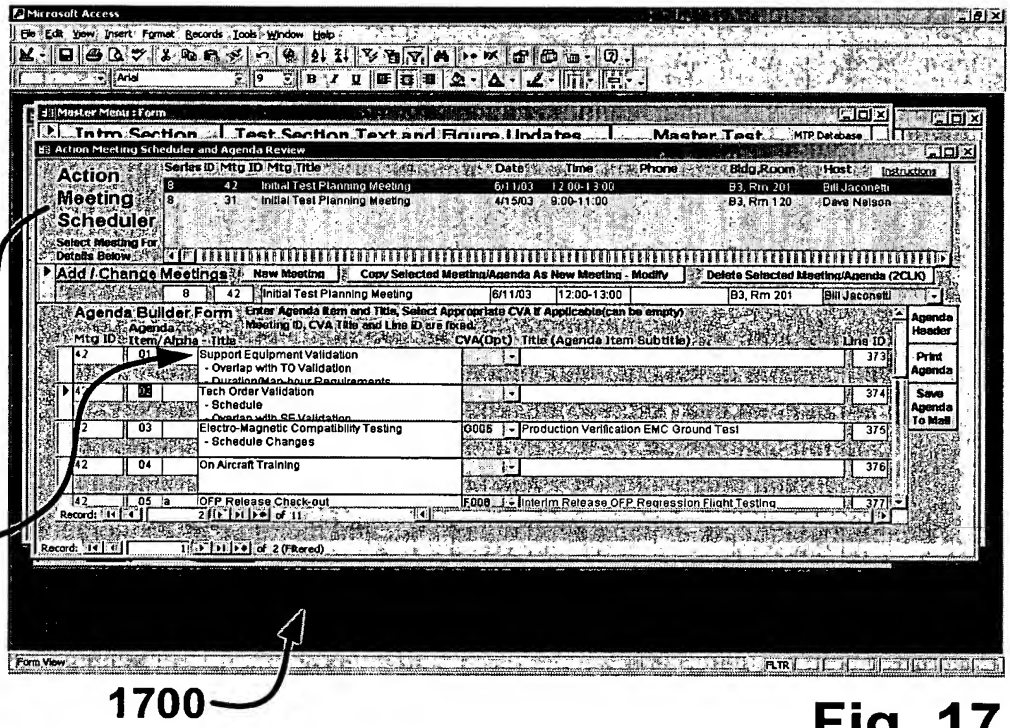
Fig. 16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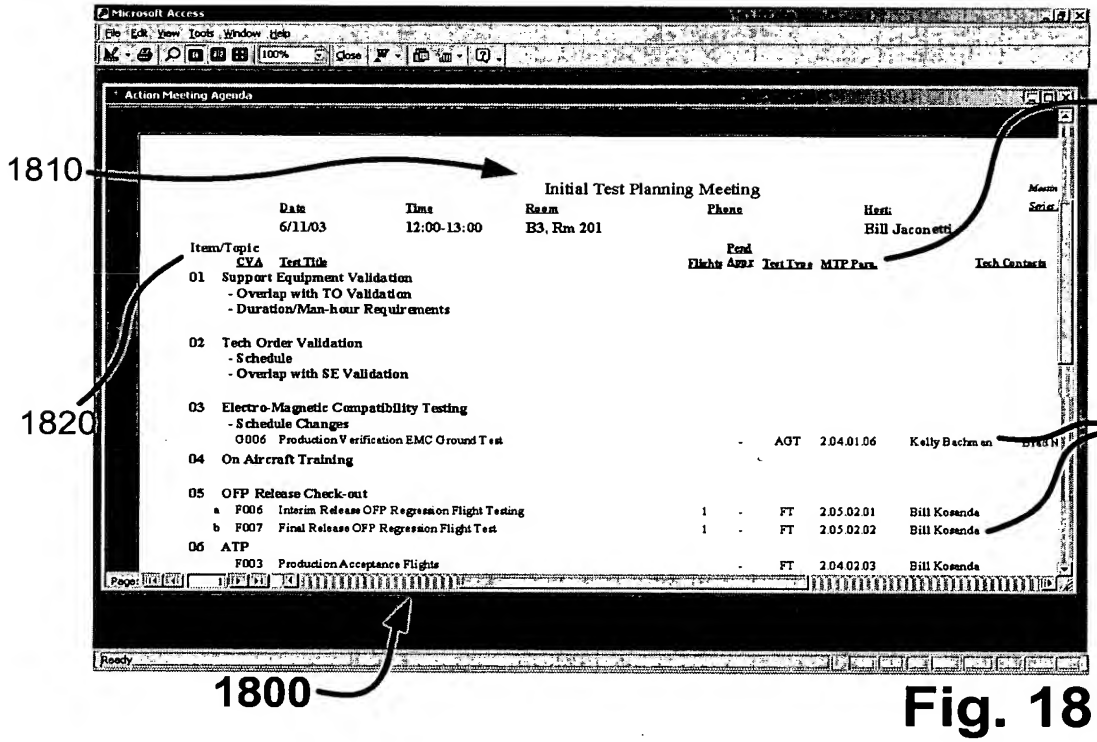
Intro Section
Test Section Text and Figure Updates
Master Test
MTP Database
Action Meeting Scheduler and Agenda Review
Action Meeting Scheduler
Select Meeting For Details Below
Series ID
Mtg ID
Mtg Title
Date
Time
Phone
Bldg,Room
Host
Instructions
8 42 Initial Test Planning Meeting 6/11/03 12:00-13:00 B3, Rm 201 Bill Jaconetti
8 31 Initial Test Planning Meeting 4/15/03 9:00-11:00 B3, Rm 120 Dave Nelson
Add / Change Meetings
New Meeting
Copy Selected Meeting/Agenda As New Meeting - Modify
Delete Selected Meeting/Agenda (2CLK)
Agenda Builder Form
Enter Agenda Item and Title, Select Appropriate CVA if Applicable(can be empty)
Meeting ID, CVA Title and Line ID are fixed
Agenda Header
Print Agenda
Save Agenda To Mail
Mtg ID
Agenda Item/Alpha
Title
CVA(Opt)
Title (Agenda Item Subtitle)
Line ID
42 01 Support Equipment Validation - Overlap with TO Validation - Duration/Man-hour Requirements 373
Tech Order Validation - Schedule - Overlap with SE Validation 374
2 03 Electro-Magnetic Compatibility Testing - Schedule Changes G006 Production Verification EMC Ground Test 375
42 04 On Aircraft Training 376
42 05 a OFP Release Check-out F008 Interim Release OFP Regression Flight Testing 377
Record: 2 of 11
Record: 1 of 2 (Filtered)
Form View
FLTR
1710
1720
1700

Fig. 17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Close
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Initial Test Planning Meeting
Date
Time
Room
Phone
Host:
6/11/03
12:00-13:00
B3, Rm 201
Bill Jaconetti
Item/Topic
CVA
Test Title
Pend Flights
Appr
Test Type
MTP Para.
Tech Contacts
01 Support Equipment Validation
- Overlap with TO Validation
- Duration/Man-hour Requirements
02 Tech Order Validation
- Schedule
- Overlap with SE Validation
03 Electro-Magnetic Compatibility Testing
- Schedule Changes
G006 Production Verification EMC Ground Test - AGT 2.04.01.06 Kelly Bachman
04 On Aircraft Training
05 OFP Release Check-out
a F006 Interim Release OFP Regression Flight Testing 1 - FT 2.05.02.01 Bill Kosenda
b F007 Final Release OFP Regression Flight Test 1 - FT 2.05.02.02 Bill Kosenda
06 ATP
F003 Production Acceptance Flights - FT 2.04.02.03 Bill Kosenda
Page:
Ready
1830
1810
1820
1840
1800

Fig. 18